# Utah State Fire Marshal's Office

# Sprinkler Technician III

(Foam-Water Sprinkler Systems & Water Spray Fixed Systems)

#### **Certification Program**

-11	Task Book Assigned to:	
	Individual's Name, Company Name	
	Date Issued by State Fire Marshal's Office	

The material contained in this book accurately defines the performance expected of the position for which it was developed. This task book is approved for use as a position qualification document in accordance with the instructions contained herein.

#### **EVALUATOR**

## DO NOT COMPLETE THIS UNLESS YOU ARE RECOMMENDING THE APPLICANT FOR CERTIFICATION

### VERIFICATION OF COMPLETED TASK BOOK FOR THE POSITION OF

#### Sprinkler Technician Level III

FINAL EVALUATOR'S VERIFICATION  I verify that all tasks have been performed and are documented with appropriate initials.
FINAL EVALUATOR'S SIGNATURE AND DATE
EVALUATOR'S PRINTED NAME, TITLE, BUSINESS NAME, AND PHONE NUMBER
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## UTAH STATE FIRE MARSHAL TASK BOOK for

#### SPRINKLER TECHNICIAN III

Task Books (TB) have been developed for this position to meet the requirements as established in Utah Code R710-5 as administered by the Utah State Fire Marshal's office. Each Task Book lists the performance requirements (tasks) for the specific position in a format that allows an applicant to be evaluated against written guidelines. Successful performance of all tasks, as observed and recorded by an evaluator, will result in a recommendation to the State Fire Marshal's Office that the applicant is eligible to be certified as a Technician III.

Evaluation and confirmation of the applicants performance of all the tasks may involve more than one evaluator. All bullet statements within a task which require an action (contain an action verb) must be demonstrated before that task can be signed off. A more detailed description of this process, definitions of terms, and responsibilities are included in NFPA 25.

#### The Company is responsible for:

- Selecting technician candidate that meet its needs and meet employment requirements.
- Ensuring that the technician candidate meets the training and experience requirements included in the prerequisites for this certification.
- Initiating Task Books to document task performance.
- Explaining to the technician candidate the purpose and processes of the Task Book as well as the applicants responsibilities.
- Providing opportunities for evaluation and/or making the technician candidate available for evaluation.
- Providing an evaluator for assignments.
- Tracking progress of the technician candidate.
- Confirming Task Book completion.
- Determining eligibility and recommendation for examination.

#### The Technician Candidate is responsible for:

- Reviewing and understanding instructions in the Task Book.
- Identifying desired objectives/goals.
- Providing background information to an evaluator.
- Satisfactorily demonstrating completion of all tasks for an assigned position.
- Assuring the Evaluation Record is complete.

- Notifying company personnel when the Task Book is completed and providing a copy.
- Keeping the original Task Book in personal records.

#### The Evaluator is responsible for:

- 1- Understanding the Sprinkler Technician task book, examination and certification program.
- 2- Being qualified and proficient in the systems being evaluated.
- 3- Meeting with the technician candidate and determining past experience, current qualifications, and desired objectives/goals.
- 4- Reviewing tasks with the technician candidate.
- 5- Explaining to the technician candidate the evaluation procedures that will be utilized and which objectives may be attained.
- 6- Identifying tasks to be performed during the evaluation period.
- 7- Accurately evaluating and recording demonstrated performance of tasks. Satisfactory performance shall be documented by dating and initialing completion of the task.

The Final Evaluator is responsible for:

1- Signing the verification statement inside the front cover of the Task Book when all tasks have been initialed and if the technician candidate is recommended for examination.

#### Technician Level III Tasks Water Spray Fixed Systems, Foam Water Sprinkler Systems & Foam Water Fixed Systems

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
		Fixed Systems.	
Determine location of system riser or control valve and if it meets standards.  Determine if system or			
hazard has been modified or changed since last inspection.			
Determine what hazard is being protected.			
Determine if valves are properly supervised.		4	
Determine if water supply is adequate for system.			
Determine if fire pumps support system. If so, has pump been inspected and tested.			
Determine if fire department connection supplies system. If so, does FDC meet inspection requirements?			
Determine if mainline strainers have been flushed.			
Determine if nozzle strainers have been removed, cleaned and inspected.			
Determine what precautions are needed before discharge testing.			
Determine type of detection system and testing requirements of			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
each.			
Verify detection system is			
adequately installed and			†
functional.	. <del>*</del> :		
Determine spray nozzle			
condition.			
Determine piping			
condition.			
Determine pipe hangers'			
condition and location.			
Determine if rubber			
gasketed fittings are			
adequately protected.			
Determine condition of			
water gauges.			
Determine if riser			
location is subject to			
freezing conditions. If so,			
what precautions have			
been taken to maintain			
riser from freezing.			
Conduct full flow			
operational test per			
automatic detection	1		
system.			
Conduct full flow			
operational test per			
manual discharge.			
Determine response time	100000000000000000000000000000000000000		
of detection system and		l .	
verify that it is within			
acceptable limits.			
Determine time lapse			
between detection system			
operation and water	4		
delivery at the nozzles.			
Verify pressure at			
hydraulically remote			
nozzle.			
Verify residual pressure			
at deluge valve with			
system flowing.			

pattern of nozzles. Are they providing adequate coverage?  Verify nozzle caps or plugs are in place and free to operate.  Verify low point drains have been opened and drained.  Verify weep holes are open and free of obstructions.  Perform internal inspection on deluge valve.  Operation of control valves from full open to full closed. How many turns did it take?  Perform proper main drain test results with prior years and determine if water supply is deteriorating.  Verify mainline strainer has been removed and internally inspected every 5 years.  On ultra-high speed systems verify all detectors are cleaned and in full operation.  On ultra-high speed systems verify response time with system requirements. Never greater than 100 milliseconds.	Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
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requirements. Never greater than 100 milliseconds.				
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milliseconds.	1	1		
	8-0		1	
LACOURTY THO DESIGNATION OF THE STATE OF THE	Verify the ability to trip			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
and reset a deluge riser			
with pneumatic detection.			
Verify the ability to trip			l .
and reset a deluge riser			
with hydraulic detection.			
Verify the ability to trip			1
and reset a deluge riser			1
with electric fixed			1
temperature detectors.			
Verify the ability to trip		1	
and reset a deluge riser			
with electric rate of rise		1	
detectors.			
Verify the ability to trip			1
and reset a deluge riser			
with electric linear			
detection.			
Verify the ability to trip			
and reset a deluge riser			
with electric UV/IR			
detection.			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
	Foam Water SI	orinkler Systems	
Determine if original installation drawings and calculations are on the			
premises as required by standards.			
Determine if previous year's inspection and			
testing records are on site as required by standards.			
Determine if occupancy has changed since the last inspection.			
Determine if the use or process of building has changed since the last inspection.			
Determine if storage configuration has changed since the last inspection.			
Determine if the building has been remodeled or changed since the last inspection.			
Determine if the system has been in continuous service since the last inspection			
Determine if proper notification has been given to AHJ, alarm company etc. before testing.			
Determine location of system riser or control valve and if it meets standards.			
Determine if all identification signs are in place and legible.			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
Determine what hazard is			
being protected.		1	
oomg protected.			
Determine if valves are			
properly supervised.			
Determine if water supply			
is adequate for system.			
Is a hydraulic nameplate			
on the riser? Is it legible?			, no
Complete			
Primaria			
level.			
Verify sprinklers do not			
show signs of leakage.			
Verify sprinklers are free			4
of corrosion.			
Verify sprinklers are free	1	1	
of foreign materials.			
Verify sprinklers are free		1	
of paint.			
Verify sprinklers are free			
of physical damage.			
Verify sprinklers are in			
the proper orientation.			
Verify sprinklers are free			
from unacceptable			
obstructions to spray	II.		
patterns.			
Verify the proper number	,		
of sprinklers and type in			
the head box.			
Verify a sprinkler wrench			
is available for each type			
of sprinkler.			
Complete a visual			
inspection of the pipe and	1	1	
fittings from floor level.			
Verify pipe and fittings			
are free of mechanical			
damage.			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
Verify pipe and fittings			
are free from leakage.			
Verify pipe and fittings			
are free from corrosion.			
Verify pipe and fittings			
are free from		1	
misalignment.			
Verify pipe and fittings			
are free from external			
loads by materials			
resetting on or hanging			
from the piping.  Complete a visual			
inspection on the hangers			
and seismic bracing from floor level.			
Verify that hangers or			
seismic bracing is not			1
loose or damaged. If so,	1		1
replace or reattach.			
Verify gauges are in good			
condition.			
Verify gauges on gridded			-27
systems are provided with			
a relief valve.			
Verify alarm devices are			
free of physical damage.			
Verify sprinklers installed			
before 1920 are replaced.	\		
Verify when sprinklers			
have been in service for	· ·		
50 years they have been			
tested or replaced. Test	V		
procedures shall be			
repeated at 10 year			
intervals.			
Verify when fast response			
sprinklers have been in service for 20 years they			
have been tested or	1		
replaced. Test procedures			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
shall be repeated at 10			
year intervals.			
Verify solder-type sprinklers with			
temperature of 325°F			
have been tested at 5 year			
intervals.			
Verify when sprinklers			
have been in service for			
75 years they have been			
tested or replaced. Test			
procedures shall be			
repeated at 5 year	1		1
intervals.			
Verify that dry sprinklers		2	
that have been in service	I .		
for 10 years have been		1	
tested or replaced. If			
maintained they shall be			
retested at 10 year			
intervals.			
Verify sprinklers in harsh			ľ
environments, corrosive			
atmospheres or corrosive			
water supplies have been			
tested or replaced on a 5	1		
year basis. Verify gauges have been			
replaced or calibrated	11		1
within the last 5 years.			
Calibration accurately			1
within 3% of full scale.	The state of the s		
Verify before opening	) (F)		
any test or drain valves			
there is adequate		1	
provisions for drainage.			
Operation of contro	1		
valves from full open to			
full closed. How many	_ I		
turns did it take?			
If a Post Indicator Valve	e		
(PIV) is installed verify			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
the rod has not become			
detached from the valve.		10	
Verify alarm device			
activation by opening and			
flowing inspectors test.			
Verify water motor alarm			
is operating properly and			
free of any debris.			
Perform a proper main			
drain test and record the			
results.	*		7
Verify the main drain test		=	
complies within accepted			
variances from previous			
tests and original			
commissioning test.			
Verify internal inspection		1	1
on alarm valves have		1	
been completed every 5			
years unless tests indicate	I .		
a greater frequency is			
necessary.			
Verify internal inspection	1		
on deluge valves have		14	
been completed annually			
unless tests indicate a			
greater frequency is			
necessary.			
Verify strainers, filters			
and restricted orifices are	1		Ĭ
inspected internally every			
5 years.			
Verify internal inspection			
on check valves have	1		
been completed every 5		1	
years to verify all			
components operate			
correctly, move freely	I		
and are in good condition.			
Determine foam type and	1		
concentrate percentage.			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
Verify type of foam proportioning system, i.e. balanced pressure pump proportioning, bladder tank, In-line balanced pressure proportioning, line proportioning and around the pump	=		
Perform detection activation test on foam system with no flow.			
Perform visual inspection on exterior of foam tanks for corrosion.			
Verify water control valves on foam tank are in the correct position.			
Verify the pressure vacuum vent is operating freely.			
Verify if foam is in the water surrounding the bladder in tank.			
Verify the amount of foam concentrate in the tank.			
Collect and set up sample foam mixtures for baseline comparison.			
Perform a foam discharge test and obtain solution samples.			
Determine residual pressure at remote line.  Verify alarms and			
auxiliary equipment shutdowns.  Determine foam			
concentration levels from samples taken during test.	II.		

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
Compare concentration sample results with baseline and verify they			
are within accepted limits.  Refill foam tank to proper			
levels and place in operation.			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
	Foam Water	Fixed Systems.	
Determine location of system riser or control valve and if it meets standards.  Determine if system or hazard has been modified or changed since last inspection.  Determine what hazard is being protected.			
Determine if valves are properly supervised.  Determine if water supply is adequate for system.  Determine if fire pumps support system. If so, has pump been inspected and			
tested.  Determine if fire department connection supplies system. If so, does FDC meet inspection requirements?  Determine if mainline strainers have been			
flushed.  Determine if nozzle strainers have been removed, cleaned and inspected.  Determine what precautions are needed.	t		
before discharge testing.  Determine type o			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
detection system and testing requirements of each.	×		
Verify detection system is adequately installed and functional.			
Determine spray nozzle condition.			
Determine piping condition.			
Determine pipe hangers' condition and location.			
Determine if rubber gasketed fittings are adequately protected.			
Determine condition of water gauges.			
Determine if riser location is subject to freezing conditions. If so,			
what precautions have been taken to maintain riser from freezing.			
Conduct full flow operational test per automatic detection system.			
Conduct full flow operational test per manual discharge.			
Determine response time of detection system and verify that it is within acceptable limits.			
Determine time lapse between detection system operation and water delivery at the nozzles.			
Verify pressure at hydraulically remote nozzle.			
Verify residual pressure			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
at deluge valve with	wny.		
system flowing.			
Determine discharge			
pattern of nozzles. Are			1
they providing adequate			
coverage?			
Verify nozzle caps or			
plugs are in place and free			
to operate.	*		
Verify low point drains			
have been opened and			
drained.			
Verify weep holes are			
open and free of obstructions.	1		
	1	_	
inspection on deluge	1		
valve.			
Operation of control	1		1
valves from full open to	1	1	N.
full closed. How many		1	
turns did it take?		-	
Perform proper main			
drain test and record	b.		
results.			
Compare main drain test			
results with prior years			
and determine if water			
supply is deteriorating.		(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
Verify mainline strainer			
has been removed and			
internally inspected every			
5 years.			-
Determine foam type and			
concentrate percentage.			
Verify type of foam			
proportioning system, i.e.			
balanced pressure pump			
proportioning, bladden		A	1
tank, In-line balanced		1	1
pressure proportioning			1
line proportioning and			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
around the pump			
proportioning systems.			
Perform detection			
activation test on foam			
system with no flow.			
Perform a water only			
discharge test to verify			
discharge patterns and		N .	
pressures.			
Perform visual inspection			
on exterior of foam tanks			
for corrosion.			
Verify water control valves on foam tank are			
in the correct position.			
Verify the pressure		1	
vacuum vent is operating		1	
freely.			
Verify if foam is in the	1	1	1
water surrounding the			1
bladder in tank.			-
Verify the amount of	1		1
foam concentrate in the			
tank.			
Collect and set up sample		~	
foam mixtures for		1	
baseline comparison.			
Perform a foam discharge			
test and obtain solution			
samples.			
Determine residual			
pressure at remote line.			
Verify alarms and	1		
auxiliary equipment			
shutdowns.			
Determine foam			
concentration levels from	II.		
samples taken during test.	1	1	
Compare concentration			
sample results with			
baseline and verify they	1		
are within accepted limits.			

Tasks	Explain in detail how task was performed and why.	Business Address where task was completed	Evaluator Initial, Certification #, and date upon completion of task
Refill foam tank to proper			
levels and place in			
operation.			
Verify the ability to trip		1	*
and reset a deluge riser			
with pneumatic detection.			
Verify the ability to trip			
and reset a deluge riser			24
with hydraulic detection.			
Verify the ability to trip			
and reset a deluge riser			
with electric fixed			
temperature detectors.			
Verify the ability to trip			
and reset a deluge riser			
with electric rate of rise			
detectors.			1
Verify the ability to trip		1	
and reset a deluge riser	1	A	
with electric linear			
detection.			
Verify the ability to trip			
and reset a deluge riser			
with electric UV/IR	- 1		
detection.			